

## ULTRASONIC IMAGING DEVICE, SYSTEM AND METHOD OF USE

### ABSTRACT

1    An ultrasonic probe comprises an elongate structure  
2    having a longitudinal axis; a first array of ultrasonic  
3    transducer elements extending along an outer surface of  
4    the elongate structure in a direction generally parallel  
5    to the longitudinal axis; a second array of ultrasonic  
6    transducer elements extending along the outer surface of  
7    the elongate structure in a direction generally parallel  
8    to the longitudinal axis; and a third array of ultrasonic  
9    transducer elements extending about the elongate  
10   structure in a direction so that it images a plane  
11   perpendicular to that imaged by at least one of the first  
12   array and the second array, the third array being  
13   disposed in a space between the first array and the  
14   second array. An electronics module for use with the  
15   probe, and an additional probe, to produce internal  
16   images of a patient.